



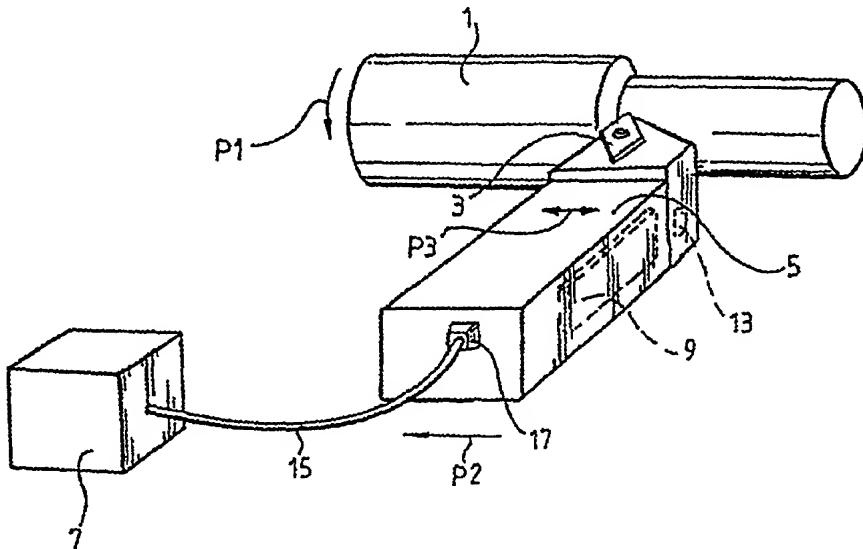
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(57) Abstract

The invention relates to a device for increasing the surface smoothness of a turned surface, said device comprising a control system with a control unit (7) and an actuator (9) connectible to the control unit and connectible with a tool holder (5). The actuator is adapted to impart a vibrating motion in the lateral direction to the tool holder. The invention also relates to a method for increasing the surface smoothness of a turned surface, comprising the step of controlling the vibrations of the tool holder during turning. The method also comprises the step of imparting a vibrating motion in the lateral direction to the tool holder. Moreover, the invention relates to a turning lathe and a turning tool holder which like the device are designed to generate said vibrating motion in the lateral direction.